

PRELIMINARY AMENDMENT
NS Entry of PCT/EP2003/012839

Please add the following new Abstract of the Disclosure:

ABSTRACT OF THE DISCLOSURE

The present invention provides a method for obtaining an immunogenic, non-haemolytic strain of *Actinobacillus pleuropneumoniae* which is modified, at least in a segment of the apxIA gene and optionally in a segment of the apxIIA gene that encodes a transmembrane domain of the Apx haemolytic and cytolytic exotoxins. It comprises also the strains, and the attenuated live vaccine porcine *pleuorpneumonia* obtained therewith.